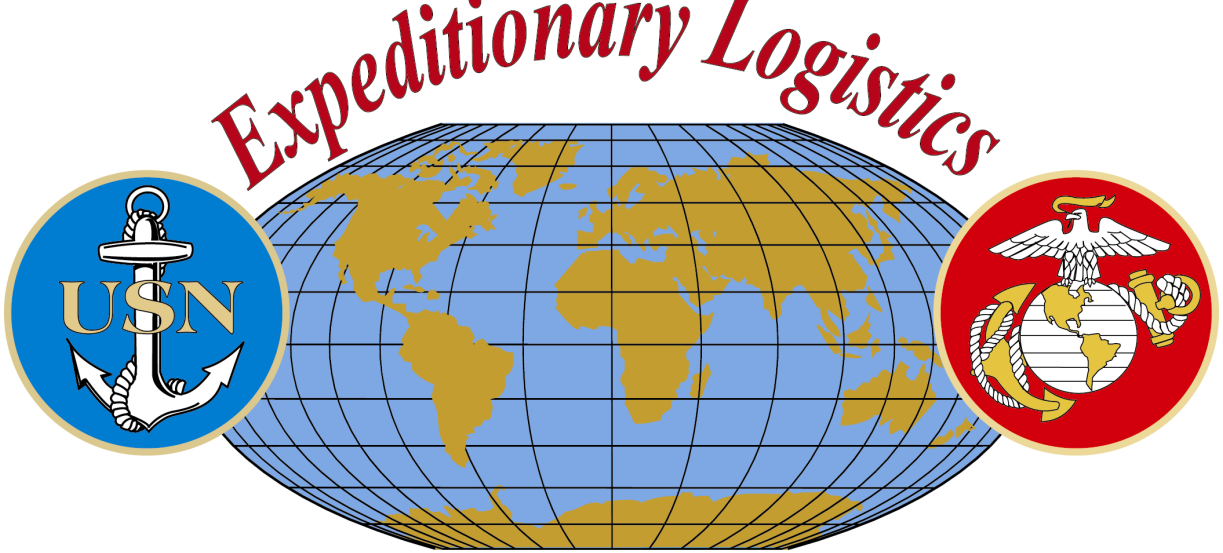
Lynn Torres

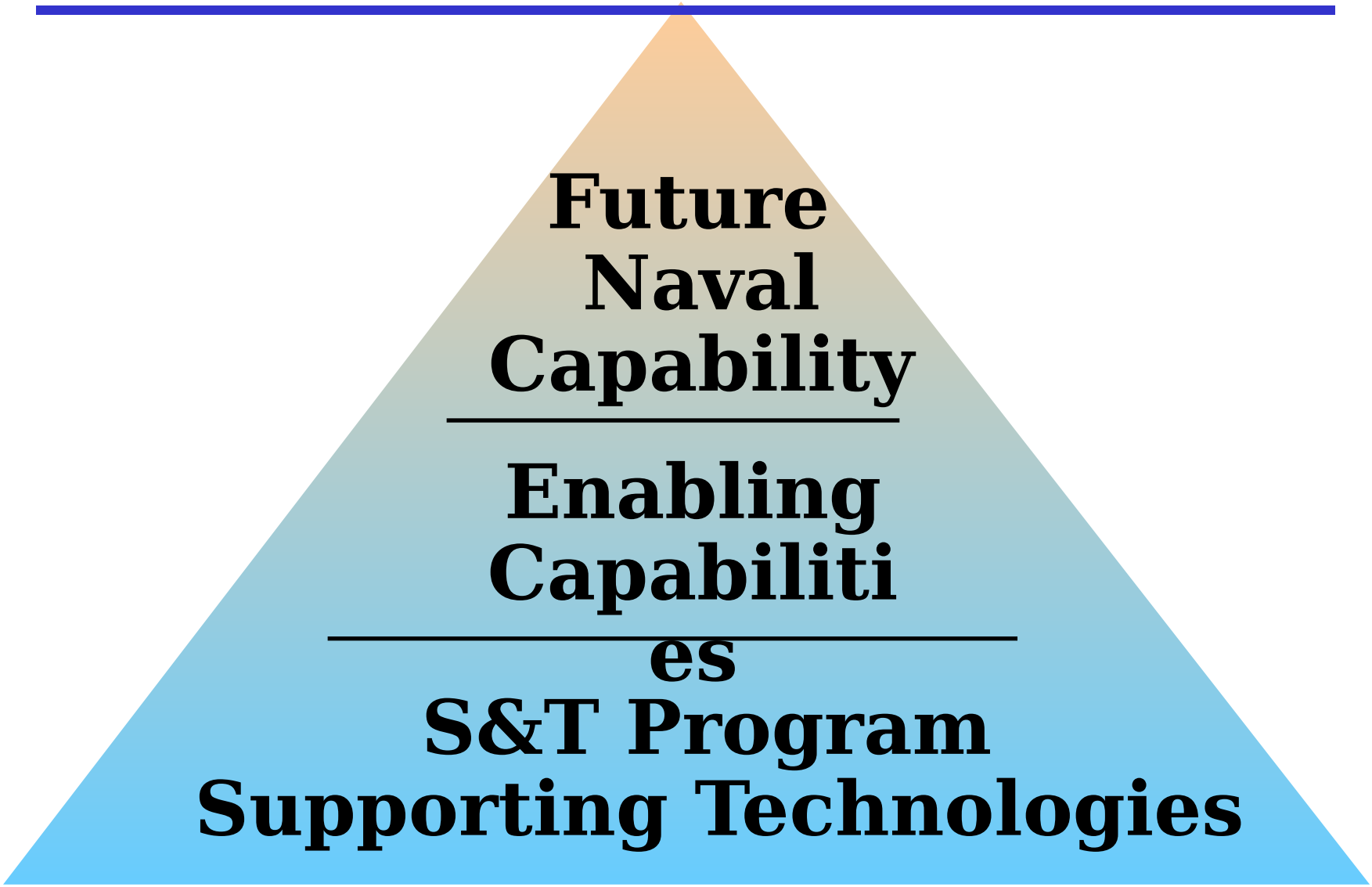
Naval Expeditionary Warfare Operations



Future Naval Capabilities

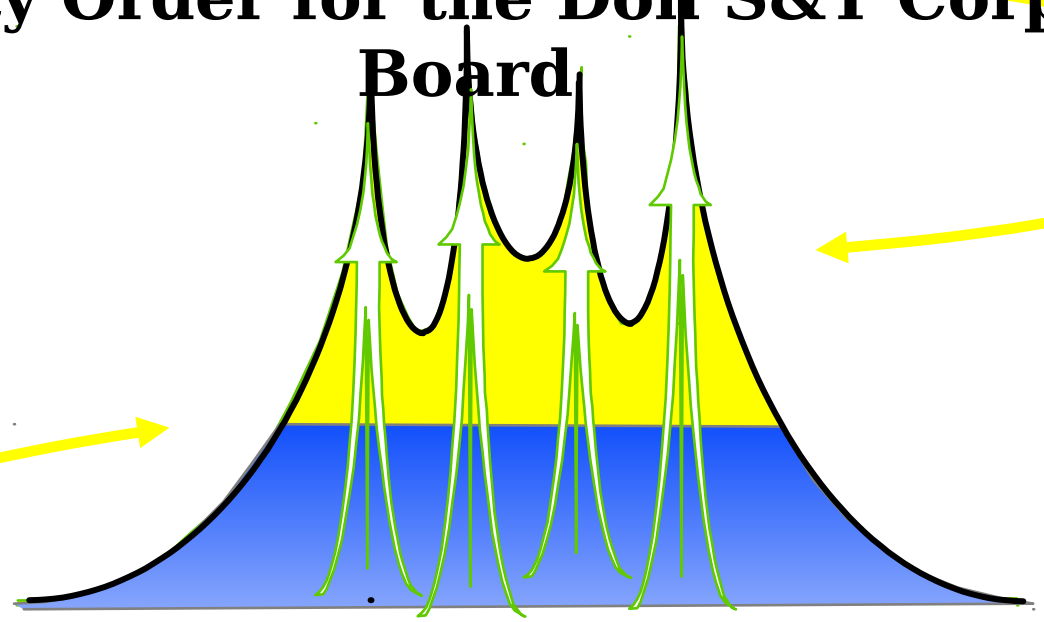
Littoral Combat Power Projection

FNC Architecture



The "Pull"

DoN Requirements Setters Propose Capabilities in Priority Order for the Don S&T Corporate Board



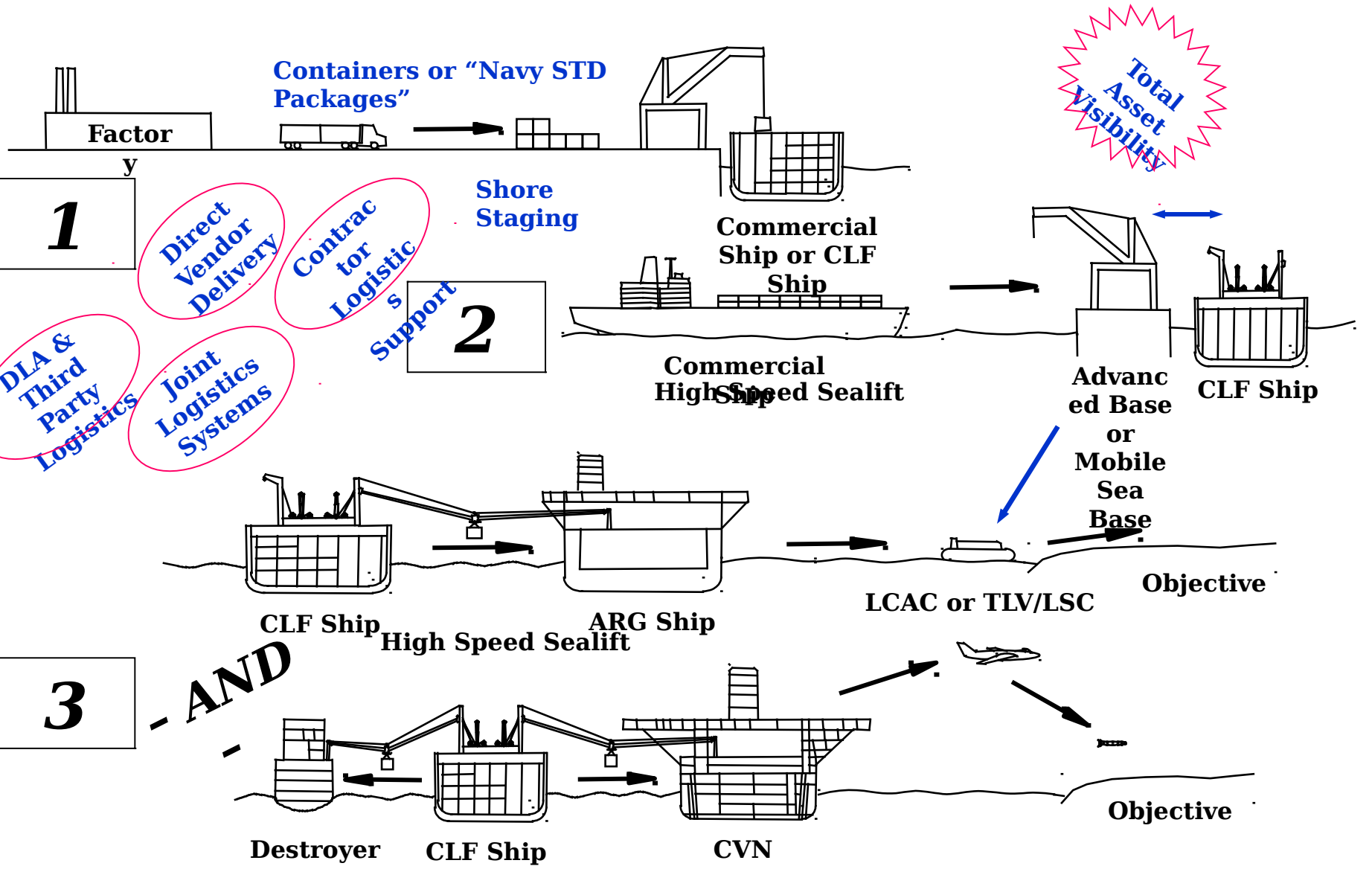
IPTs Generate Technology Investment Plans:

For OPNAV to Program in POM-02

For ONR to Execute

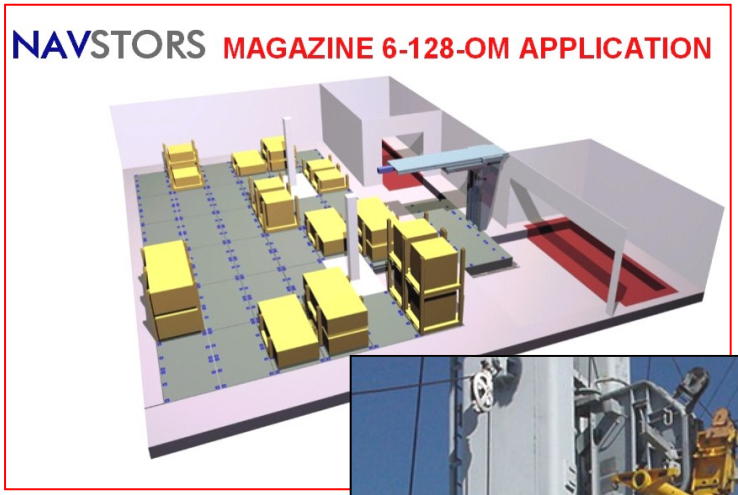
For Acquisition to Plan For/Agree to Tran

Operational Logistics
A "System of Systems" Approach



ExLog New-Starts

- Strike Up / Strike Down on Combatants/Carriers and MPF/Log Ships
  - Linear Motors
  - Robotics
- Underway Replenishment
  - Hydro-oriented Modeling and Analysis in Tensioned Systems
  - Motion Control & Mathematical Analysis of Vertical Perturbations
- High Speed Shuttle
  - Experimental Seakeeping and Operational Data



ExLog New-Starts

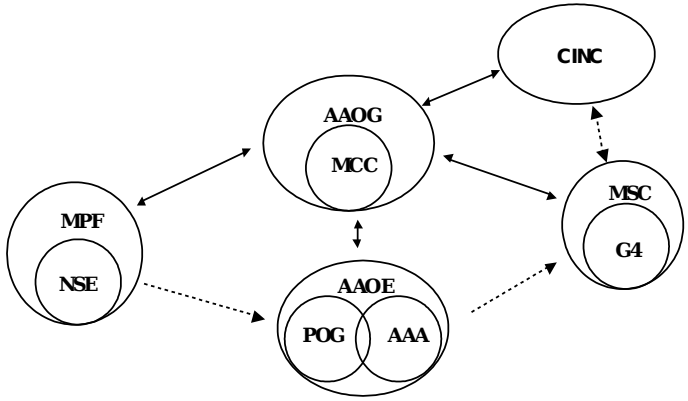
- Skin to Skin Transfer to Combatants/Carriers and MPF/Log Ships
  - Fendering
  - Surfactants
  - Cranes
- FY05 Consideration
  - High Speed Sealift
  - Ship to Shore Craft

ExLog New-Starts

- FY02-04 Ground Logistics Command and Control

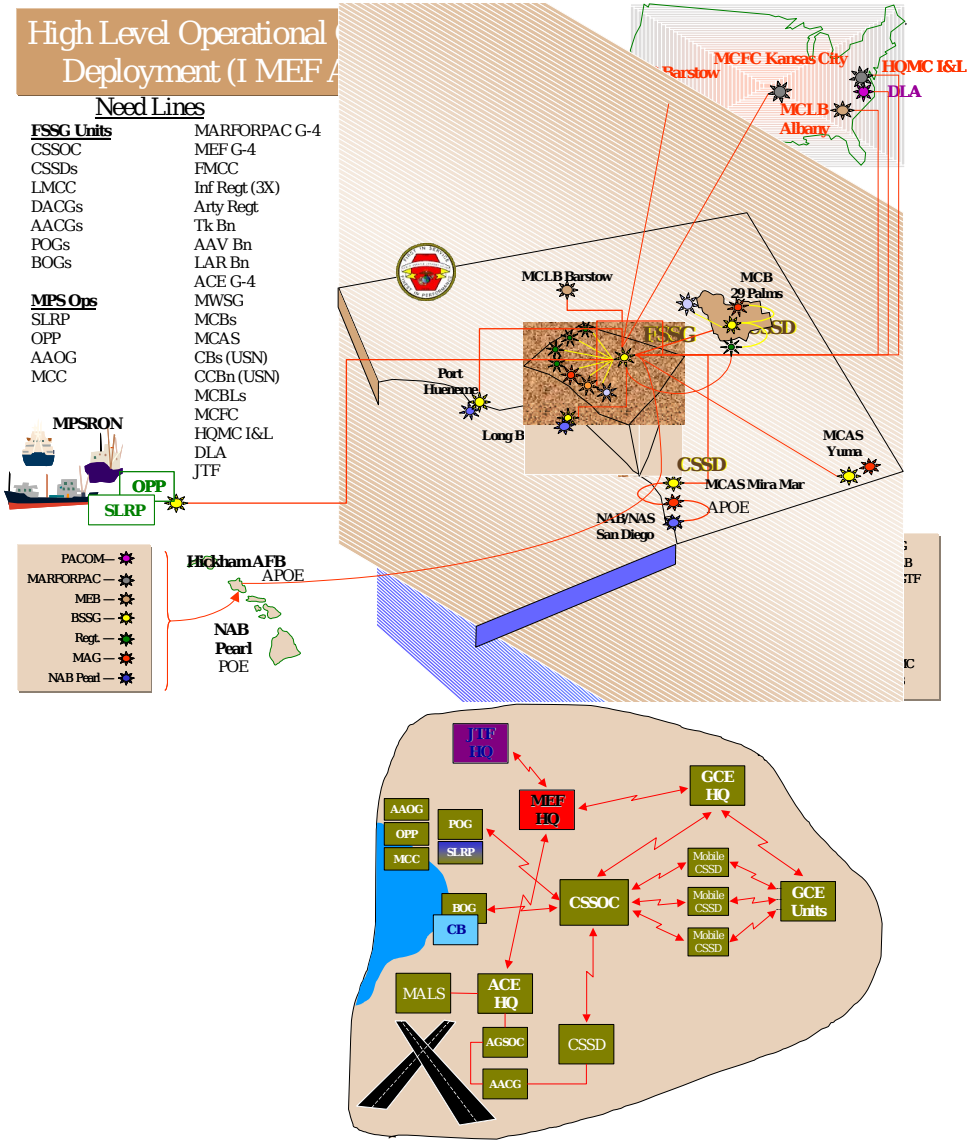
- FY05-07 Naval Afloat Logistics Command and Control

High Level Operational Concept



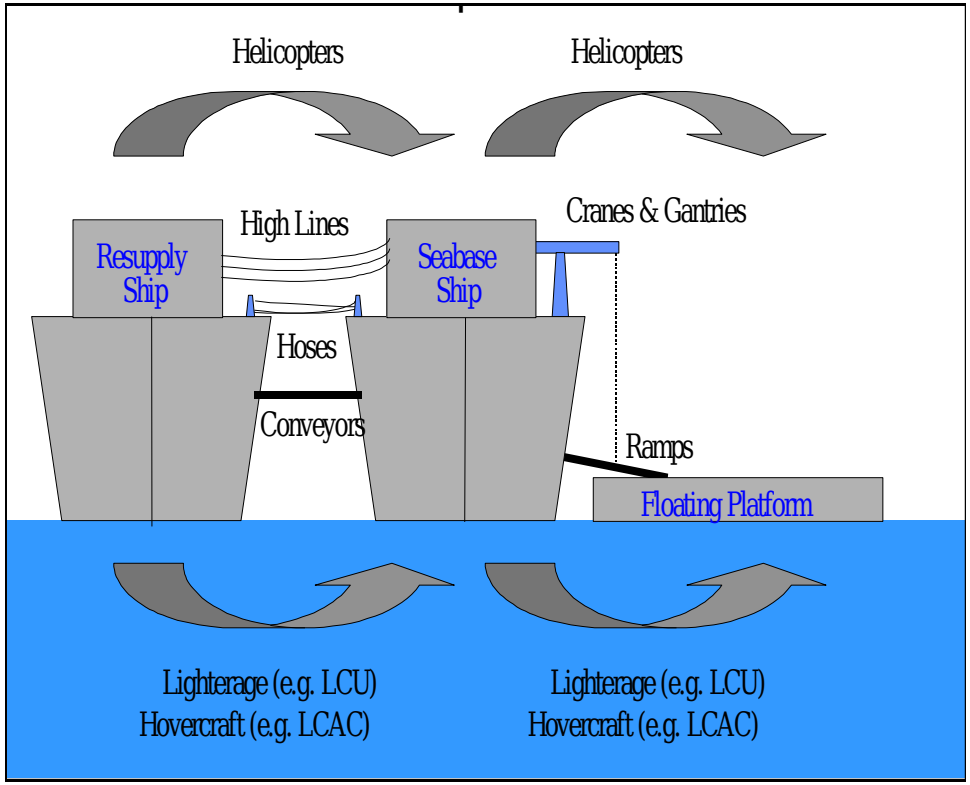
ExLog FNC Early Demos

- FY02-03 Ground Command and Control
  - Sensor Array Joint Experiments with USA “Autonomic Logistics”
  - Situational Awareness Information Injectors
  - Combat Service Support Decision Tool Kit with Common Filter Restricted Data Models



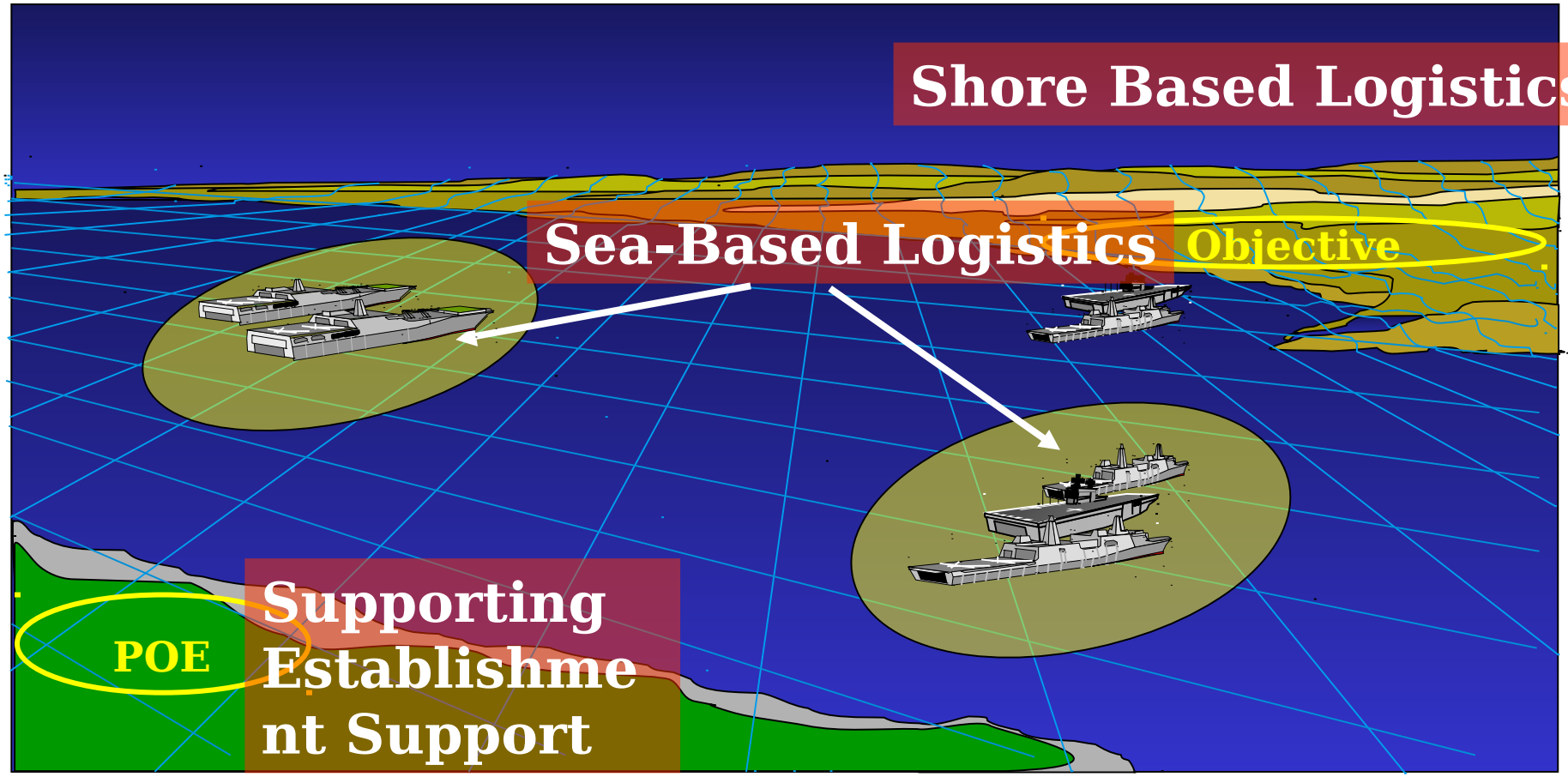
Expectation Management

- Capability Maturity Upon Exit
  - Modeled Demo
  - Scaled Demo
  - End to End Demo
  - Indirect CINC Benefit
    - Ship Acquisition Timeline



Future Logistics Concepts

Marinized Logistics Must Be Able to Support the Full Operational Spectrum Through a Combination of Capabilities.



ExLog Execution

- Majority Is off of Competitive BAAs
  - Teaming Encouraged
  - Industry Days Held
- ExLog Web Site WWW.ONR.NAVY.MIL/EXPEDLOGISFNC
- BAAs Published
  - In the CBD
  - ONR Home Page WWW.Onr.Navy.Mil Under Business Opportunities
  - On ExLog Web Page